

Name _____ Period _____ Date _____

Imaginary Numbers

A brief introduction

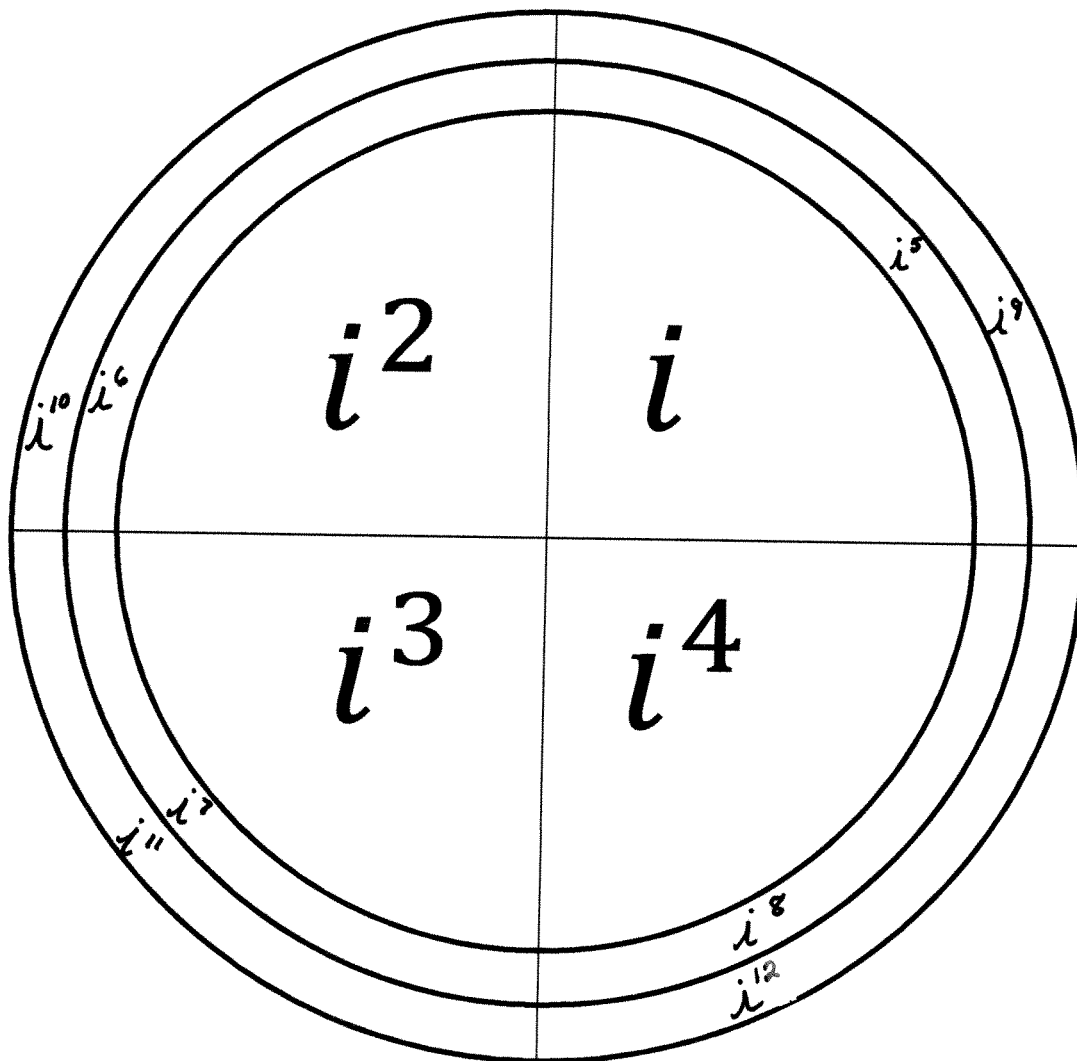


Table for Powers of i

i	i^2	i^3	i^4	i^5	i^6	i^7	i^8	i^{103}	i^n
$\sqrt{-1}$	-1	$-\sqrt{-1}$ or $-i$	1	$\sqrt{-1}$	-1	$-i$	1	i^3	$i^{4m} = 1$
									$i^{4m+1} = i$
									$i^{4m+2} = -1$
									$i^{4m+3} = -i$

Explain and show how you would find i^{351} ?